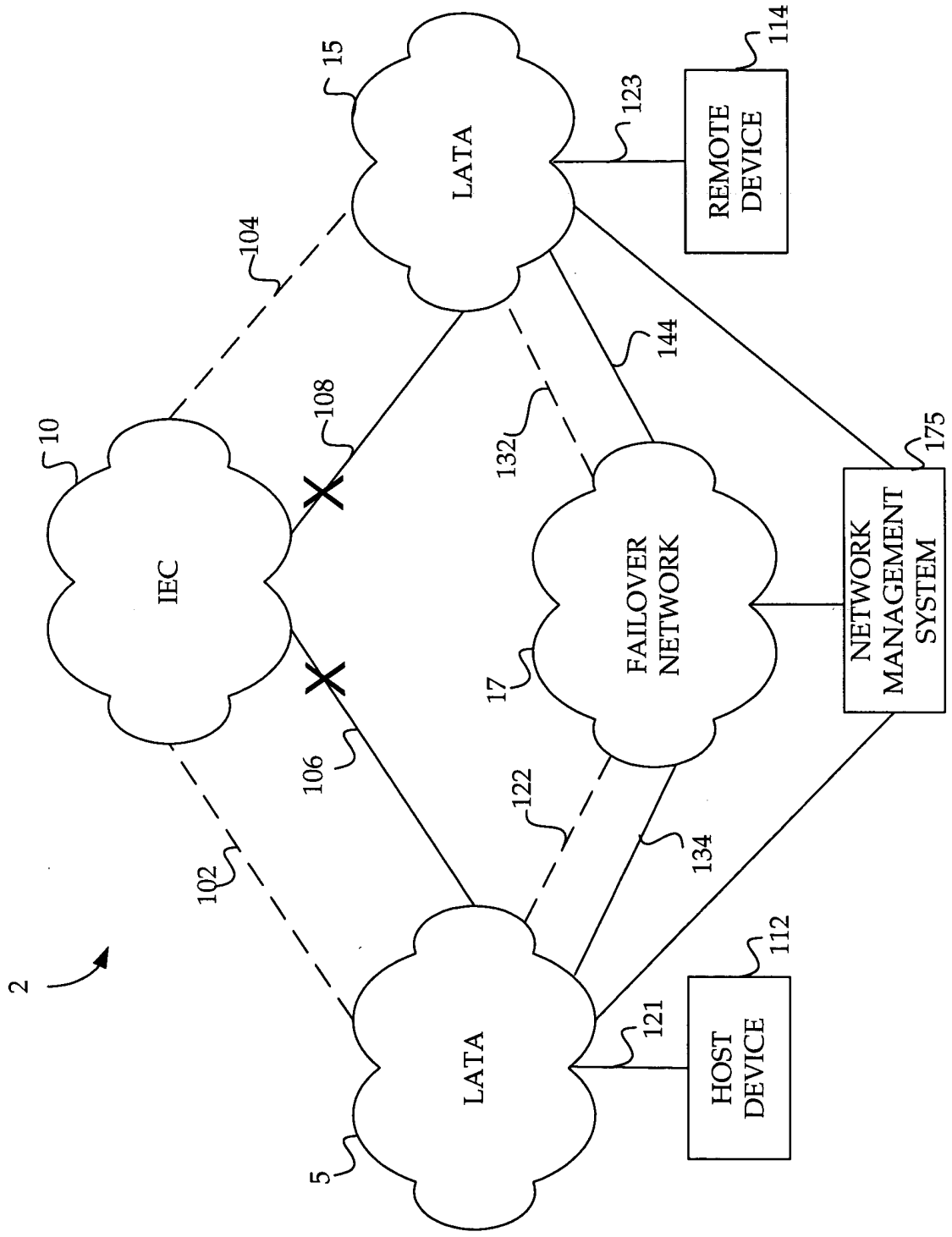
2
IEC
10
LATA
15
LATA
5
FAILOVER NETWORK
17
NETWORK MANAGEMENT SYSTEM
175
REMOTE DEVICE
114
HOST DEVICE
112
102
104
106
108
121
122
123
132
134
144

FIG. 1

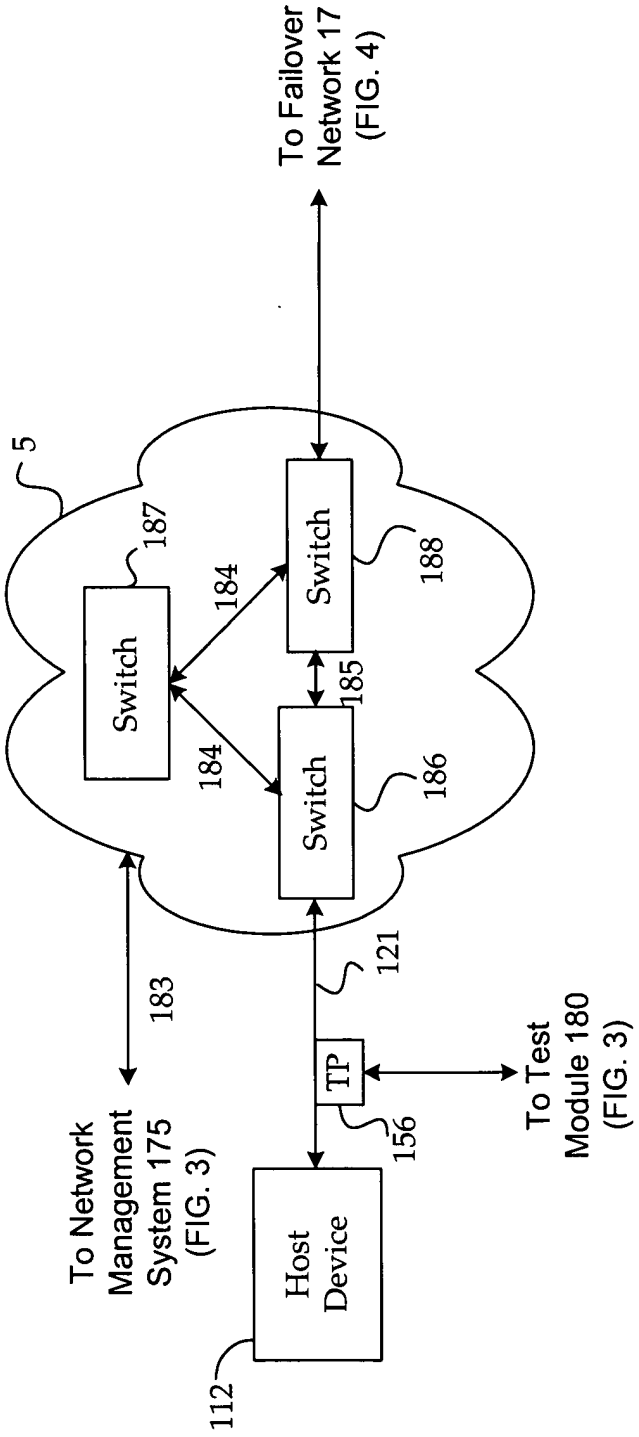
To Failover Network 17 (FIG. 4)
5
187
Switch
184
Switch
188
185
184
Switch
186
121
183
TP
156
To Test Module 180 (FIG. 3)
To Network Management System 175 (FIG. 3)
Host Device
112

FIG. 2

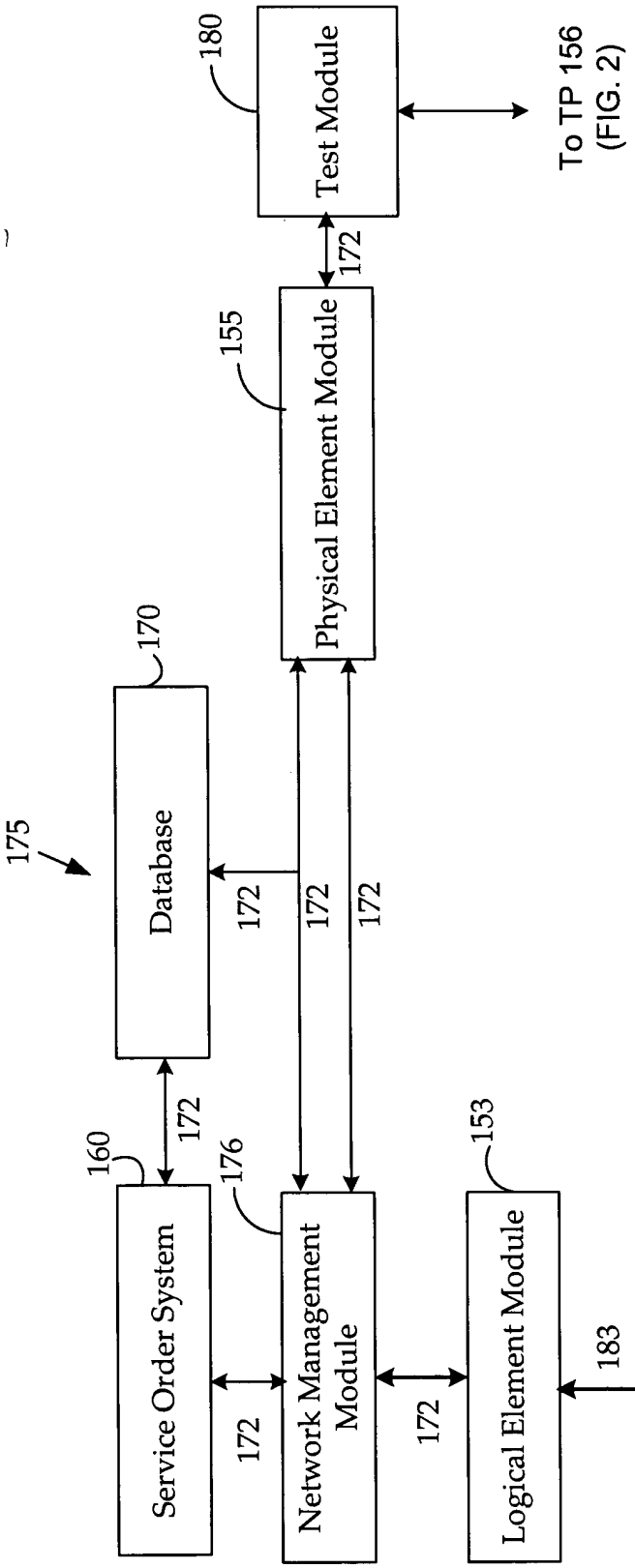
180
Test Module
To TP 156
(FIG. 2)
172
155
Physical Element Module
170
Database
175
172
172
172
160
172
176
153
Service Order System
Network Management Module
Logical Element Module
172
172
183
To Data Network 2
(FIG. 1)

FIG. 3

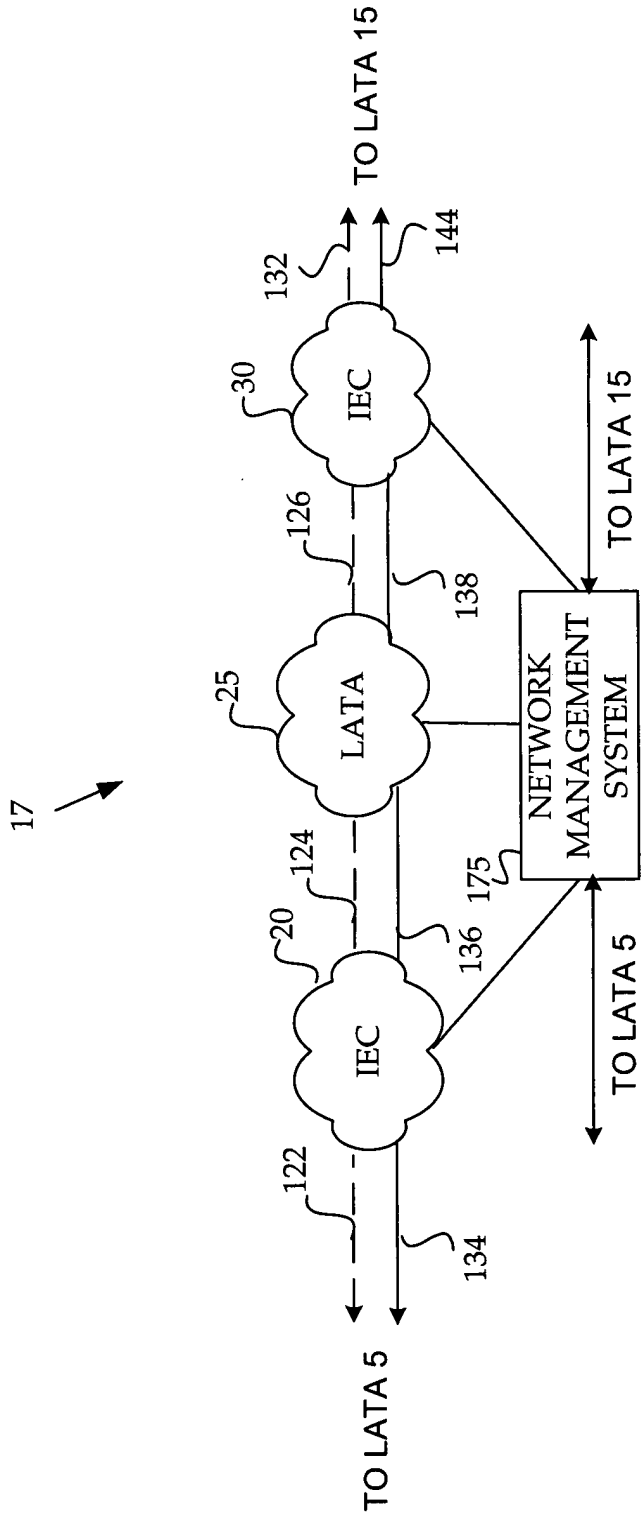
17
TO LATA 15
144
132
30
IEC
126
138
25
LATA
124
175
NETWORK MANAGEMENT SYSTEM
TO LATA 15
20
136
IEC
122
134
TO LATA 5
TO LATA 5

FIG. 4

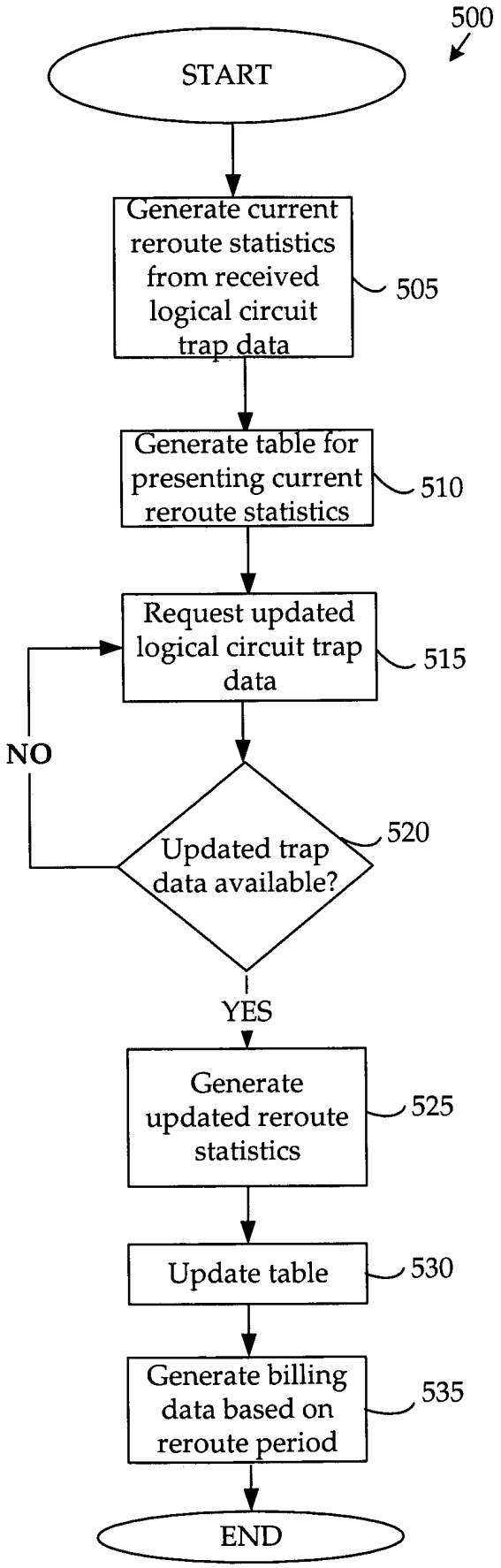
500
START
Generate current reroute statistics from received logical circuit trap data
505
Generate table for presenting current reroute statistics
510
Request updated logical circuit trap data
515
NO
Updated trap data available?
520
YES
Generate updated reroute statistics
525
Update table
530
Generate billing data based on reroute period
535
END

FIG. 5

190

52 LOGICAL CIRCUIT ID	54 REROUTE STATUS	56 LOGICAL FAILOVER CIRCUIT ID	58 # HOPS	60 UTILIZATION	62 QUALITY OF SERVICE (QoS)	64 REROUTE PERIOD
66 101	YES	901	4	95	UBR	2h
68 102	YES	902	3	80	UBR	4h
70 103	YES	903	4	50	VBR	6h

FIG. 6A

190

52 LOGICAL CIRCUIT ID	54 REROUTE STATUS	56 LOGICAL FAILOVER CIRCUIT ID	58 # HOPS	60 UTILIZATION	62 QUALITY OF SERVICE (QoS)	64 REROUTE PERIOD
66 101	NO	901	4	95	UBR	3h
68 102	NO	902	3	80	UBR	5h
70 103	YES	903	4	50	VBR	7h

FIG. 6B